PEST RISK ANALYSIS

STAGE 1: INITIATION Identify pest		
· -	st to ensure that	the assessment is being performed on a real identifiable organism and that
biological and other information used in th		
1. Is the organism clearly a single taxonomic entity and can it be adequately distinguished from other entities of the same rank? if yes go to 3 if no go to 2	Yes	Limonius californicus (Mannerheim) Coleoptera : Elateridae
2. Attempt to redefine the taxonomic entity so that the criteria under 1 are satisfied. Is this possible?	-	
if no go to 22		
The PRA Area		
The PRA area can be a complete country, s	everal countries	or part(s) of one or several countries.
3. Clearly define the PRA area.		Entire EPPO region
	<i>Go to 4.</i>	
Earlier analysis		
The pest, or a very similar pest, may have b replace the need for a new PRA.	een subjected to	the PRA process before, nationally or internationally. This may partly or entirely
4. Does a relevant earlier PRA exist? if yes go to 5 if no go to 7	Yes	The UK has previously considered wireworms during a commodity risk assessment of seed potatoes from the eastern seaboard of Canada (Baker, 1995).

5. Is the earlier PRA still entirely valid,	Partly valid	The earlier assessment considered eight species but did not include <i>Limonius</i>
or only partly valid (out of date,		californicus.
applied in different circumstances, for		
a similar but distinct pest)?		
if entirely valid End		
if partly valid go to 6 if not valid go to 7		
6. Proceed with the assessment, but	<i>Go to 7.</i>	A copy of the earlier assessment is attached.
compare as much as possible with the		
earlier assessment.		
STAGE 2. PEST RISK ASSESSMENT		
Section A: Qualitative criteria of a quara	antine pest	
Geographical criteria		
This section considers the geographical dis	tribution of the po	est in the PRA area.
7. Does the pest occur in the PRA	No	Limonius californicus is restricted to North America (USA & Canada)
area?		
if yes go to 8		
if no go to 9		
8. Is the pest of limited distribution in	No	
the PRA area ?		
Note: "of limited distribution" means that		
the pest has not reached the limits of its		
potential range either in the field or in		
protected conditions: it is not limited to its		

present distribution by climatic conditions or host-plant distribution. There should be evidence that, without phytosanitary measures, the pest would be capable of

additional spread.

if yes go to 18 if no go to 22

Potential for establishment		
	-	t in the PRA area (do not consider plants which are accidentally / very occasional hosts
*		ector, a suitable species must be present or its native vector must be introduced. The pest iplication and spread, either in the field or in protected conditions.
9. Does at least one host plant grow to	Yes	Hosts such as potatoes, cereals and sugar beet are very widely grown in the EPPO
a substantial extent in the PRA area,	103	region.
in the open, in protected cultivation or		
both?		
if yes go to 10 if no go to 22		
10. Does the pest have to pass part of	No	
its life cycle on a host plant other than		
its major host (i.e. obligate alternate		
host plant) ?		
if yes go to 11 if no go to 12		
11. Does the alternate host plant occur	-	
in the same part of the PRA area as		
the major host plant ?		
if yes go to 12 if no go to 22		
12. Does the pest require a vector (i.e.	No	
is vector transmission the only means		
of dispersal)?		
if yes go to 13 if no go to 14		
13. Is the vector present in the PRA	-	
area likely to be introduced. If in		
doubt, a separate assessment of the		
probability of introduction of the		
vector (in Section B1) may be needed?		
if yes go to 14 if no go to 22		

14. Does the known geographical	Yes	The EPPO region contains eco-climatic zones similar to those in the Pacific north
distribution of the pest include eco-		west of North America where <i>L. californicus</i> is most common.
climatic zones comparable with those		
of the PRA area ?		
if yes go to 18 if no go to 15		
15. Is it probable, nevertheless, that	-	
the pest could survive and thrive in a		
wider eco-climatic zone that could		
include the PRA area ?		
if yes go to 18 if no go to 16		
16. Could the eco-climatic	-	
requirements of the pest be found in		
protected conditions in the PRA area?		
if yes go to 17 if no go to 22		
17. Is a host plant grown in protected	-	
conditions in the PRA area ?		
if yes go to 18 if no go to 22		

Potential economic importance		
18. With specific reference to the host	Yes	L. californicus is one of six economically important species within the Genus
plant(s) which occur(s) in the PRA		Limonius. It is an important pest of irrigated crops, potatoes, sugar beet and
area, and the parts of those plants		small grains (Hill, 1987; McCaffrey et al., 1995).
which are damaged, does the pest in its		
present range cause significant		
damage or loss ?		
if yes go to 21 if no go to 19		

19. Could the pest, nevertheless, cause	-	
significant damage or loss in the PRA		
area, considering eco-climatic and		
other factors for damage expression?		
if yes go to 21 if no go to 20		
20. Would the presence of the pest	-	
cause other negative economic impacts		
(social, environmental, loss of export		
markets) ?		
if yes go to 21 if no go to 22		

21. This pest could present a risk to the PRA area

Go To Section B

22. This pest does not qualify as a quarantine pest and the assessment can stop.

However if this is the first time that the decision-making scheme has directed you to this point, it may be worth returning to the question that led you here and continuing through the scheme in case the remaining questions strongly indicate categorisation as a possible quarantine pest. In the latter case, seek a second opinion to decide whether the answers which led you to this point could be given a different reply.

Name of pest risk analyst: Alan MacLeod

Address: Central Science Laboratory, Sand Hutton, York, YO41 1LZ, UK.

Date: January 2000